Performance Data Sheet

AKA9438ZXC

General Information

Model	AKA9438ZXC	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	6090	5340	4670	4040	3410	2750	2010
	Watts	562	622	662	684	690	682	663
	Amps	2.96	3.41	3.67	3.79	3.82	3.80	3.79
	Lb/h	94.1	89.7	85.4	80.7	74.9	67.6	58.2
25	Btu/h	6930	6110	5370	4680	4000	3300	2540
	Watts	570	636	683	714	730	734	729
	Amps	3.05	3.47	3.72	3.85	3.89	3.91	3.94
	Lb/h	109	104	99.0	94.2	88.7	82.1	73.7
30	Btu/h	7850	6920	6100	5330	4590	3840	3040
	Watts	575	645	698	736	762	777	783
	Amps	3.15	3.56	3.80	3.92	3.99	4.03	4.11
	Lb/h	125	119	113	108	103	96.5	89.0
35	Btu/h	8850	7810	6880	6030	5210	4390	3530
	Watts	579	652	710	754	787	812	829
	Amps	3.27	3.65	3.88	4.01	4.09	4.16	4.28
	Lb/h	142	135	128	123	117	111	104
40	Btu/h	9960	8790	7750	6780	5870	4960	4020
	Watts	586	660	721	770	809	842	869
	Amps	3.39	3.75	3.96	4.10	4.19	4.29	4.45
	Lb/h	162	153	146	139	133	127	121
45	Btu/h	11200	9880	8700	7620	6590	5580	4550
	Watts	598	672	734	786	831	870	905
	Amps	3.50	3.82	4.03	4.16	4.26	4.39	4.59
	Lb/h	185	174	165	157	151	145	139
50	Btu/h	12600	11100	9780	8550	7400	6270	5140
	Watts	616	689	752	806	854	898	940
	Amps	3.57	3.87	4.06	4.19	4.31	4.46	4.70
	Lb/h	210	198	187	179	171	165	158

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.321134E+04	-9.743392E+02	-1.553377E+01	7.236680E+01
C2	2.496253E+02	3.285553E+00	8.074350E-02	5.934452E+00

C3	-2.335168E+02	3.412395E+01	4.533963E-01	-1.281662E+00
C4	1.861821E+00	-9.437144E-02	2.099995E-03	-8.484302E-04
C5	-1.987815E+00	-3.774666E-02	-2.591715E-03	-6.130983E-02
C6	1.803911E+00	-2.337550E-01	-3.389848E-03	1.714841E-02
C7	2.756962E-02	3.426818E-03	-1.853571E-05	7.636841E-04
C8	-3.239011E-02	-2.778699E-03	-2.297564E-06	-4.481051E-04
C9	1.083382E-02	1.617801E-03	1.327761E-05	3.803551E-04
C10	-6.081113E-03	3.692684E-04	8.077063E-06	-9.024713E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AKA9438ZXC

General Information

Model	AKA9438ZXC	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	3340	2880	2310	1710	1140	694	441
	Watts	551	515	496	486	479	467	443
	Amps	3.54	3.50	3.47	3.44	3.41	3.37	3.32
	Lb/h	50.8	51.6	46.3	37.4	27.5	19.0	14.4
5	Btu/h	3720	3310	2770	2170	1590	1100	778
	Watts	614	577	557	546	538	524	499
	Amps	3.66	3.61	3.58	3.56	3.53	3.49	3.43
	Lb/h	55.8	58.9	55.5	47.9	38.9	30.8	26.2
10	Btu/h	4190	3830	3300	2700	2090	1540	1150
	Watts	666	631	612	602	595	583	559
	Amps	3.75	3.71	3.69	3.67	3.65	3.62	3.56
	Lb/h	62.8	68.0	66.2	59.8	51.5	43.6	38.8
15	Btu/h	4750	4420	3900	3280	2630	2020	1540
	Watts	704	673	658	652	648	639	619
	Amps	3.82	3.79	3.78	3.78	3.77	3.75	3.72
	Lb/h	71.7	78.8	78.4	73.0	65.1	57.3	52.0
20	Btu/h	5380	5060	4550	3900	3200	2520	1940
	Watts	727	701	692	693	695	693	678
	Amps	3.85	3.85	3.87	3.88	3.90	3.90	3.89
	Lb/h	82.2	91.1	92.0	87.4	79.8	71.8	65.9
25	Btu/h	6060	5760	5230	4550	3790	3030	2340
	Watts	731	715	714	723	734	740	734
	Amps	3.86	3.89	3.93	3.98	4.03	4.06	4.08
	Lb/h	94.5	105	107	103	95.4	87.1	80.3
30	Btu/h	6800	6500	5950	5220	4390	3530	2730
	Watts	716	710	721	741	763	780	785
	Amps	3.84	3.91	3.99	4.08	4.16	4.23	4.28
	Lb/h	108	120	123	119	112	103	95.2

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-6.102491E+03	2.280767E+03	5.407624E+00	-4.774887E+02
C2	-1.992564E+02	1.719495E+01	3.357120E-02	-6.396927E+00

C3	3.553659E+02	-4.617610E+01	-5.047541E-02	1.542169E+01
C4	3.805466E+00	-5.811540E-01	-1.771674E-03	7.019254E-02
C5	5.207816E+00	-4.026877E-02	-8.557908E-05	1.278606E-01
C6	-3.981952E+00	4.013038E-01	4.527500E-04	-1.437977E-01
C7	-1.596029E-02	-2.816285E-03	-4.378154E-07	-1.181606E-04
C8	-2.067786E-02	4.889361E-03	1.544344E-05	-3.747647E-04
C9	-2.380638E-02	-3.733581E-05	-3.303490E-08	-4.712393E-04
C10	1.269638E-02	-1.180329E-03	-1.421185E-06	4.195774E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature